

## WHAT IS CLAIMED IS:

1. A portable radio communication apparatus comprising:  
a boom portion having both ends connected with a housing of said portable radio communication apparatus and having a central portion  
5 located between the both ends; and  
at least one through hole formed between said boom portion and said housing.
2. The portable radio communication apparatus as claimed in claim 1,  
10 wherein said boom portion includes the following:
  - (a) a central portion extending in parallel to a width direction of said portable radio communication apparatus; and
  - (b) two end portions bent respectively from both ends of the central portion.
- 15 3. The portable radio communication apparatus as claimed in claim 1,  
wherein said boom portion has a shape of arch.
4. The portable radio communication apparatus as claimed in claim 1,  
20 wherein a thickness of each of both ends of said boom portion is larger than a thickness of the central portion of said boom portion.
5. The portable radio communication apparatus as claimed in claim 1,  
wherein a width of each of both ends of said boom portion is larger  
25 than a width of the central portion of said boom portion.
6. The portable radio communication apparatus as claimed in

claim 1,

wherein said boom portion is detachable from said housing.

7. The portable radio communication apparatus as claimed in claim 1,

5 wherein said boom portion is provided so as to extend on a plane substantially equal to a plane of a bottom surface of said portable radio communication apparatus.

8. The portable radio communication apparatus as claimed in claim 1,

10 wherein said boom portion is provided so as to be inclined so that the central portion of said boom portion protrudes from a plane of a bottom surface of said portable radio communication apparatus.

9. The portable radio communication apparatus as claimed in claim 1,

15 wherein said boom portion is made of a dielectric.

10. The portable radio communication apparatus as claimed in claim 9,

wherein said boom portion is made of a dielectric which is an elastic resin material.

20 11. The portable radio communication apparatus as claimed in claim 1,

wherein said boom portion is made of a conductor material.

12. The portable radio communication apparatus as claimed in claim 1,

25 wherein at least one part of an antenna element of said portable radio communication apparatus is provided on one of an interior and a

surface of said boom portion.

13. The portable radio communication apparatus as claimed in claim 1, further comprising a reinforcement member formed between said boom portion and said housing,

5        wherein at least one part of an antenna element of said portable radio communication apparatus is provided on one of an interior and a surface of said reinforcement member.

14. The portable radio communication apparatus as claimed in claim 1,

10        wherein at least one part of a parasitic element of said portable radio communication apparatus is provided on one of an interior and a surface of said boom portion.

15        15. A portable radio communication apparatus comprising:  
a plate-shaped strap attachment portion connected with an end portion of a housing of the portable radio communication apparatus; and  
at least one through hole formed in said strap attachment portion,  
wherein at least one part of an antenna element of said portable radio communication apparatus is provided on one of an interior and a surface of said strap attachment portion.

20        16. The portable radio communication apparatus as claimed in claim 15,

wherein at least one part of a parasitic element of said portable radio communication apparatus is provided on one of the interior and the surface of said strap attachment portion.

25        17. The portable radio communication apparatus as claimed in claim 15,

wherein a thickness of a connection portion of said strap attachment portion which is connected with the end portion of the housing of the portable radio communication apparatus is larger than a thickness of a portion of said strap attachment portion which is apart  
5 from the housing of the portable radio communication apparatus.

18. The portable radio communication apparatus as claimed in claim 12,

wherein said antenna element includes a helical conductor.

19. The portable radio communication apparatus as claimed in  
10 claim 12,

wherein said antenna element includes a meander conductor.

20. The portable radio communication apparatus as claimed in claim 19,

wherein said meander conductor is formed so as to be bent  
15 three-dimensionally.